	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	
--	----------------------------------------	--

EX

FFFFFFFF FF FF FF FF FF FF FF FF FF FF	22222222 22222222 22222222 22222222 2222	000000 000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00		NN
		\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$		

ED'

:

```
VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER: [EDT. SRCJFCOLING.BLI; 1
                                          **TITLE 'EDTSFCOLING - compute formatted character width'
MODULE EDTSFCOLING ( ! Comput
                                                                                                                                               ! Compute formatted character width ! File: FCOLINC.BLI Edit: JBS1008
                                                                            IDENT = 'V04-000'
                                                                            ) =
                                          BEGIN
                                                  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED.
10
                         0010
0011
0012
0013
0014
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0018
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16
18
19
                                                   TRANSFERRED.
                                           1 *
2222222222233333333333344444444444555555
                                                   THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
                                                   CORPORATION.
                                                   DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
                                                   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
                         0028
                         0030
                         0031
                         0032
0033
0034
0035
0036
0037
0038
                                              FACILITY:
                                                                           EDT -- The DEC Standard Editor
                                              ABSTRACT:
                                                           Compute formatted character width.
                                              ENVIRONMENT: Runs at any access mode - AST reentrant
                         0040
0041
0042
0043
0044
0045
0046
0047
0048
                                              AUTHOR: Bob Kushlis, CREATION DATE: March 18, 1979
                                              MODIFIED BY:
                                             1-001 - Original. DJS 19-FEB-1981. This module was created by
extracting routine EDT$$FMT CHWID from module FORMAT.

1-002 - Regularize headers. JBS 05-Mar-1981

1-003 - Change length of form feed string. STS 08-Oct-1981

1-004 - Add support for DEC STD 169. JBS 11-Aug-1982

1-005 - Remove ".L32". JBS 12-Aug-1982

1-006 - Add conditional for VT220 support. JBS 10-Feb-1983

1-007 - Deduce the width of unusual characters from their representation table. JBS 04-Mar-1983
                         0051
                                              1-008
                                                          - Correct the computation for characters on an 8-bit terminal. JBS 07-Mar-1983
```

16-Sep-1984 00:19:37 14-Sep-1984 12:23:04

EDTSFCOLING - compute formatted character width

EDTSFCOLING V04-000	EDT\$FCOLINC - compute formatted character width 16-Sep-1984 00:19:37 Declarations 14-Sep-1984 12:23:04	VAX-11 Bliss-32 V4.0-742 Page DISK\$VMSMASTER: [EDT.SRC]FCOLING.BLI;1 (2)
56 57 58 60 61 63 64 65 66 67 70 71 77 77 78 79 81 82 83 84 85 86 87 88 89 90 91	0055 XSBTTL 'Declarations' 0056 1	VAX-11 Bliss-32 V4.0-742 Page DISK\$VMSMASTER:[EDT.SRC]FCOLINC.BLI;1 (2)
87 88 89 90 91	0658 1 NONE 0659 1 0660 1 EXTERNAL REFERENCES: 0661 1 0662 1 In the routine	

ED!

```
EDTSFCOLING - compute formatted character width 16-Sep-1984 00:19:37 EDTSSFMT_CHWID - compute formatted character w 14-Sep-1984 12:23:04
EDTSFCOLINC
VO4-000
                                                                                                                                   VAX-11 Bliss-32 V4.0-742
DISKSVMSMASTER: [EDT. SRCJFCOLING.BLI; 1
                                    %SBTTL 'EDT$$FMT_CHWID - compute formatted character width'
    93
94
95
96
97
98
99
100
102
103
105
                                                                                                              Compute formatted character width
Character whose width to compute
Current column (for tabs)
                                    GLOBAL ROUTINE EDT$$FMT_CHWID (
                                          CHAR,
COLUMN
                                          ) =
                        0670
0671
0672
0673
0674
0675
0676
0678
0679
0680
                                      FUNCTIONAL DESCRIPTION:
                                                This routine computes the number of character positions a character would
                                                take to display at a specified column.
    106
107
108
109
                                      FORMAL PARAMETERS:
                                        CHAR
                                                                        The character to be displayed.
    110
                                        COLUMN
                                                                       The starting column. (0 is the first column on a line)
                        0681
0682
0683
0684
0685
0686
0687
0688
0689
0691
0692
0693
                                       IMPLICIT INPUTS:
    114
                                               EDT$$A_US_TXT
EDT$$G_EIGHT_BIT
    116
                                      IMPLICIT OUTPUTS:
    118
                                               NONE
    120123456789012345678901444545
                                      ROUTINE VALUE:
                                               The number of chraracter positions the character would occupy.
                       0695
0696
0697
0698
                                      SIDE EFFECTS:
                                               NONE
                       0699
0700
                                         BEGIN
                                         EXTERNAL
                       0704
                       0705
0706
0707
                                    XIF SUPPORT_VT220
                                    TTHEN
                                               EDT$$G_EIGHT_BIT. ! 1 = this is an eight-bit terminal EDT$$B_CHAR_INFO : BLOCKVECTOR [256, 1, BYTE], ! Table of information about characters
                        0708
                     U 0709
                                   XELSE
                       0710
                                                EDT$$B_CHAR_INFO : BLOCKVECTOR [128, 1, BYTE], ! Table of information about characters
                        0711
0712
0713
                                    XF I
                                               EDT$$A_CHAR_NAMES,
EDT$$K_CHAR_NAMES_LEN,
EDT$$A_US_TXT : VECTOR;
                                                                                                              Names of some characters
                                                                                                            ! Length of the names table
                                        LOCAL C:
    148
```

ED VO

```
EDTSFCOLING - compute formatted character width 16-Sep-1984 00:19:37 EDTSSFMT_CHWID - compute formatted character w 14-Sep-1984 12:23:04
EDTSFCOLINC
VO4-000
                                                                                                                                                                                                                                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742 PARTICULAR PARTICUL
                                                                                                                        C = .CHAR;
             TIF ( NOT SUPPORT_VT220)
                                                                                                                        C = .C AND %x'7F':
                                                                                                       XF I
                                                                                                                        SELECTONE .C OF
                                                                                                                                        [ASC_K_TAB] : RETURN (8 - (.COLUMN MOD 8));
                                                                                                                                        [ASC K FF] :
                                                                                                                                                          LOCAL
                                                                                                                                                                          LEN:
                                                                                                                                                          LEN = CHSRCHAR (.EDTSSA_US_TXT [1]);
                                                                                                                                                          RETURN (.LEN);
                                                                                                                                                          END:
                                                                                                                                        [OTHERWISE] :
                                                                                                                                                          BEGIN
                                                                                                                                                         LOCAL
                                                                                                                                                                          LEN:
                                                                                                                                                          CASE .EDT$$B_CHAR_INFO [.C, 0, 2, 2, 0] FROM 0 TO 3 OF
                                                                                                                                                                          [0]:
                                                                                                                                                                                           RETURN (1);
                                                                                                                                                                                                                                                                                                                  ! Normal character
                                                                                                                                                                          [1]:
                                                                                                                                                                                           RETURN (2);
                                                                                                                                                                                                                                                                                                                   ! ^c
                                                                                                                                                                          [2]:
                                                                                                                                                                                                                                                                                                                  ! <name>
                                                                                                                                                                                           BEGIN
                                                                                                                                                                                            LOCAL
                                                                                                                                                                                                            REP_PTR,
REP_CHAR;
                                                                    0764
0765
                                                                                                       XIF SUPPORT_VT220
                                                                                                       THEN
                                                                                                                                                                                             IF (.EDT$$G_EIGHT_BIT AND (.C GEQ %X'AO'))
                                                                                                                                                                                             THEN
                                                                                                                                                                                                            RETURN (1)
                                                                                                                                                                                            ELSE
                                                                                                       XF I
                                                                     0774
0775
0776
                                                                                                                                                                                                            REP_PTR = CH$PLUS (CH$FIND_CH (EDT$$K_CHAR_NAMES_LEN, EDT$$A_CHAR_NAMES, .C), 1);
LEN = 2;
```

```
EDTSFCOLINC
VO4-000
                      EDTSFCOLING - compute formatted character width 16-Sep-1984 00:19:37 EDTSSFMT_CHWID - compute formatted character w 14-Sep-1984 12:23:04
                                                                                                                              VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER: [EDT. SRC]FCOLING.BLI:1
                                                                    REP_CHAR = CH$RCHAR_A (REP_PTR);
    WHILE ((.REP_CHAR GEQ %x'20') AND (.REP_CHAR LEQ %x'7E')) DO
                                                                          BEGIN
                                                                          LEN = .LEN + 1;
REP_CHAR = CHSRCHAR_A (REP_PTR);
END;
                                                                     RETURN (.LEN);
                                                                    END:
                                                               END:
                                                         [3] :
                                                               RETURN (5);
                                                                                                       ! <Xnn>
                                                         TES:
                                                   END:
                                             TES:
                                        END:
                                                                                                       ! of routine EDT$$FMT_CHWID
                                                                                                          .TITLE EDT$FCOLINC EDT$FCOLINC - compute formatted cha
                                                                                                                                       racter width
                                                                                                                     \V04-000\
                                                                                                          . IDENT
                                                                                                                     EDT$$G_EIGHT_BIT
EDT$$B_CHAR_INFO
EDT$$A_CHAR_NAMES
EDT$$K_CHAR_NAMES_LEN
EDT$$A_US_TXT
                                                                                                          .EXTRN
                                                                                                          .EXTRN
                                                                                                          .EXTRN
                                                                                                          .EXTRN
                                                                                                          .EXTRN
                                                                                                          .PSECT
                                                                                                                     _EDT$CODE, NOWRT, SHR,
                                                                                                                                                       PIC.2
                                                                                                                                                                                       0665
0720
0730
                                                                                     00000
                                                                                                          .ENTRY
                                                                                                                     EDTSSFMT_CHWID, Save R2,R3
                                                                                                                     CHAR C
C #9
1$
                                                       51
                                                                                      00002
                                                                                                          MOVL
                                                                            51
10
                                                                                      00006
                                                                                                          CMPL
                                                                                      00009
                                                                                                          BNEQ
                                   00
50
50
                                                                           01
08
50
                                                                                                                     #1, COLUMN, #0, -(SP)
#8, (SP)+, R0, R0
R0, #8, R0
               7E
                                                       AC
8E
08
                                                                                      0000B
                                                                                                          EMUL
                                                                                                                                                                                       0731
                                                                                      00011
                                                                                                          EDIV
                                                                                      00016
                                                                                                          SUBL 3
                                                                                      0001A
                                                                                                          RET
                                                                           51
08
00
60
                                                                                 D1
12
                                                        00
                                                                                      0001B 15:
                                                                                                          CMPL
                                                                                                                                                                                       0733
                                                                                     0001E
00020
00027
                                                                                                          BNEQ
                                                        50
50
                                                                                 DO
9A
                                                           0000000G
                                                                                                                     EDT$$A_US_TXT+4, RO (RO), CEN
                                                                                                                                                                                       0739
                                                                                                          MOVL
                                                                                                          MOVZBL
                                                                                                          RET
                                                                                                                                                                                       0740
                                                                                                                                EDT$$B_CHAR_INFOCC], R3
               53 0000000060041
03
                                                       00
                                                                                                          EXTZV
                                                                                                                     M2, M2,
R3, M0,
6$-3$,-
4$-3$,-
                                                                                                          CASEL
                                                                         001E
             004F
                                 000E
                                                     000A
                                                                                                          . WORD
                                                                                                                     5$-3$,-
10$-3$
                                                                                                          BRB
                                                                                                                     6$ RO
                                                        50
                                                                                                          MOVL
                                                                                                          RET
```

EDTSFCOLING V04-000	EDTSFCOLING - compute EDTSSFMT_CHWID - com	formatted char oute formatted	racte	r width 1	E 10 6-Sep- 4-Sep-		0:37 VAX-11 Bliss-32 V4.0-742 B:04 DISK\$VMSMASTER: [EDT.SRC]FCOLING.B	Page 6
	000000A0	0D 00000000G 8F	51	E9 00047	5\$:	BLBC	EDTSSG_EIGHT_BIT, 75	: 0768
		50	01	DO 00057	6\$:	MOVL	/1, RO	0774
	00000000G 00	50 00000000G	00 51 02 51	9E 0005E 3A 00062 12 0006A D4 00060	7\$:	BLBC CMPL BLSS MOVL RET MOVAB LOCC BNEQ CLRL INCL MOVL MOVZBL	EDT\$\$K_CHAR_NAMES_LEN, RO C, RO, EDT\$\$A_CHAR_NAMES 8\$ R1	0775
	0000007E	50 52 20 8F	51 02 81 52 10 52	D6 00066 D0 00070 9A 00073 D1 00076 19 00079 D1 00076	8\$: 9\$:	INCL MOVL MOVZBL CMPL BLSS CMPL	REP_PTR #2, LEN (REP_PTR)+, REP_CHAR REP_CHAR, #32	0776 0777 0779
		50	07 50 EB 05	14 00082 06 00084 11 00086 00 00088 04 00088	10\$:	CMPL BLSS CMPL BGTR INCL BRB MOVL RET	RÉP_CHAR, #126 11\$- LEN 9\$ #5, RO	0/81 0782 0791 0797

EV

: Routine Size: 140 bytes, Routine Base: _EDT\$CODE + 0000

: 228 0798 1 : 229 0799 1 !<BLF/PAGE>

ED VO

EDTSFCOLING - compute formatted character width 16-Sep-1984 00:19:37 EDTSSFMT_CHWID - compute formatted character w 14-Sep-1984 12:23:04

VAX-11 Bliss-32 V4.0-742 Pa DISK\$VMSMASTER:[EDT.SRCJFCOLINC.BLI;1

! of module EDTSFCOLING

0800 1 END 0801 1 0802 0 ELUDOM

PSECT SUMMARY

Name Bytes Attributes

_EDT\$CODE

EDTSFCOLINC V04-000

140 NOVEC, NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[EDT.SRC]EDT.L32;1 _\$255\$DUA28:[EDT.SRC]PSECTS.L32;1 _\$255\$DUA28:[EDT.SRC]SUPPORTS.L32;1 _\$255\$DUA28:[EDT.SRC]TRANSLATE.L32;1	377 2 2 6	1 1 0	50 50	40 7 5 57	00:00.2 00:00.1 00:00.1 00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACEBACK/LIS=LIS\$: FCOLINC/OBJ=OBJ\$: FCOLINC MSRC\$: FCOLINC.BLI/UPDATE=(ENH\$: FCOLINC

; Size: 140 code + 0 data bytes ; Run Time: 00:13.0 ; Elapsed Time: 00:16.3 ; Lines/CPU Min: 3712 ; Lexemes/CPU-Min: 10694 ; Memory Used: 78 pages ; Compilation Complete

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